

Gri swol d_Ri sk_May_June. txt

Gri swol d, CT Black Rot - Grape From 2009-05-01 To 2009-06-19

Date	Hi gh Temp	Low Temp	Wet Hours	Dai l y Ri sk	Warni ng
05/01	64.8	54.0	24.0	2.27	Infecti on Ri sk
05/02	68.2	50.2	11.8	3.20	Infecti on Ri sk
05/03	62.8	42.2	11.8	0.59	
05/04	62.1	48.4	15.0	1.38	Infecti on Ri sk
05/05	54.2	47.6	14.3	2.08	Infecti on Ri sk
05/06	69.4	46.0	4.8	2.19	Infecti on Ri sk
05/07	69.4	49.4	18.0	1.60	Infecti on Ri sk
05/08	73.2	48.2	11.3	2.32	Infecti on Ri sk
05/09	68.8	54.2	11.8	1.02	Infecti on Ri sk
05/10	67.5	49.9	1.5	0.23	
05/11	65.8	39.5		0.00	
05/12	67.5	39.2	4.3	0.25	
05/13	69.3	38.4	4.8	0.33	
05/14	60.8	47.4	15.3	1.22	Infecti on Ri sk
05/15	80.2	52.7	14.0	1.93	Infecti on Ri sk
05/16	76.9	47.9	18.8	1.89	Infecti on Ri sk
05/17	61.5	50.1	10.0	2.84	Infecti on Ri sk
05/18	56.3	38.5	1.8	0.07	
05/19	68.3	35.6	0.5	0.02	
05/20	82.9	42.8	0.5	0.02	
05/21	84.1	48.5	1.5	0.06	
05/22	85.1	50.7	0.8	0.04	
05/23	70.9	54.6	5.8	0.55	
05/24	80.2	53.3	19.0	2.21	Infecti on Ri sk
05/25	80.0	50.1	10.8	3.33	Infecti on Ri sk
05/26	63.9	42.1		0.00	
05/27	60.0	46.7	10.3	0.28	
05/28	64.1	51.1	13.3	0.78	
05/29	67.7	50.6	17.5	1.57	Infecti on Ri sk
05/30	78.6	52.5	8.5	2.25	Infecti on Ri sk
05/31	76.7	45.6	5.5	0.44	
06/01	67.0	36.4	1.0	0.05	
06/02	78.7	51.4	9.3	0.81	
06/03	75.5	52.1	16.5	2.28	Infecti on Ri sk
06/04	72.9	52.3	13.8	3.02	Infecti on Ri sk
06/05	61.6	50.9	22.5	1.79	Infecti on Ri sk
06/06	76.1	53.8	12.8	2.37	Infecti on Ri sk
06/07	80.9	58.4	8.3	1.07	Infecti on Ri sk
06/08	79.1	56.7	5.0	0.76	
06/09	58.5	53.9	17.3	1.23	Infecti on Ri sk
06/10	65.3	55.0	19.3	3.04	Infecti on Ri sk
06/11	66.6	56.2	13.5	4.40	Infecti on Ri sk
06/12	76.6	60.0	17.8	6.95	Infecti on Ri sk
06/13	79.0	57.8	12.5	7.94	Infecti on Ri sk
06/14	71.7	50.7	14.3	1.35	Infecti on Ri sk
06/15	73.3	48.3	13.3	0.73	
06/16	71.6	46.7	10.0	0.94	
06/17	72.1	44.5	7.8	0.39	
06/18	68.3	47.5	20.5	2.35	Infecti on Ri sk
06/19	64.4	63.4	7.0	3.34	Infecti on Ri sk

Gri swol d, CT Botryti s - Grape From 2009-05-01 To 2009-06-19

Date	Hi gh Temp	Low Temp	Wet Hours	RH>95 Hours	Dai l y Ri sk	Warni ng
05/01	64.8	54.0	24.0	11.8	2.71	Hi gh Infecti on Ri sk
05/02	68.2	50.2	11.8	5.3	0.00	

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05/03	62.8	42.2	18.0	9.0	1.26	High Infection Risk
05/04	62.1	48.4	15.0	11.8	0.00	
05/05	54.2	47.6	14.5	2.5	0.00	
05/06	69.4	46.0	12.5	9.8	0.00	
05/07	69.4	49.4	18.0	17.5	1.46	High Infection Risk
05/08	73.2	48.2	11.3	8.0	0.00	
05/09	68.8	54.2	11.8	7.8	0.00	
05/10	67.5	49.9	1.5	0.3	0.00	
05/11	65.8	39.5	1.3		0.00	
05/12	67.5	39.2	13.8	5.3	0.00	
05/13	69.3	38.4	8.3	3.5	0.00	
05/14	60.8	47.4	16.0	1.0	0.11	Low Infection Risk
05/15	80.2	52.7	14.0	11.3	0.00	
05/16	76.9	47.9	18.8	15.0	1.54	High Infection Risk
05/17	61.5	50.1	10.0	9.3	0.00	
05/18	56.3	38.5	5.8	0.5	0.00	
05/19	68.3	35.6	2.3	0.8	0.00	
05/20	82.9	42.8	6.3	0.5	0.00	
05/21	84.1	48.5	1.5		0.00	
05/22	85.1	50.7	0.8		0.00	
05/23	70.9	54.6	5.8	2.0	0.00	
05/24	80.2	53.3	19.0	10.3	1.66	High Infection Risk
05/25	80.0	50.1	10.8	6.8	0.00	
05/26	63.9	42.1			0.00	
05/27	60.0	46.7	13.0	3.3	0.00	
05/28	64.1	51.1	13.3	8.0	0.00	
05/29	67.7	50.6	17.5	15.0	1.27	High Infection Risk
05/30	78.6	52.5	8.5	6.3	0.00	
05/31	76.7	45.6	8.0	5.0	0.00	
06/01	67.0	36.4	1.0		0.00	
06/02	78.7	51.4	9.3	2.0	0.00	
06/03	75.5	52.1	16.5	9.0	1.04	High Infection Risk
06/04	72.9	52.3	13.8	9.3	0.00	
06/05	61.6	50.9	22.5	15.0	2.00	High Infection Risk
06/06	76.1	53.8	12.8	10.8	0.00	
06/07	80.9	58.4	8.3	7.0	0.00	
06/08	79.1	56.7	5.0		0.00	
06/09	58.5	53.9	17.3	10.5	1.18	High Infection Risk
06/10	65.3	55.0	19.3	11.8	1.67	High Infection Risk
06/11	66.6	56.2	13.5	3.8	0.18	Low Infection Risk
06/12	76.6	60.0	17.8	16.8	1.62	High Infection Risk
06/13	79.0	57.8	12.5	10.3	0.09	Low Infection Risk
06/14	71.7	50.7	14.3	11.8	0.07	Low Infection Risk
06/15	73.3	48.3	13.3	10.8	0.00	
06/16	71.6	46.7	10.8	8.8	0.00	
06/17	72.1	44.5	12.3	9.5	0.00	
06/18	68.3	47.5	21.0	15.5	2.14	High Infection Risk
06/19	64.4	63.4	7.0	7.0	0.00	

Gri swol d, CT Downy Mi ldew - Grape From 2009-05-01 To 2009-06-19

Date	High Temp	Deg Hrs43	Rain Fall	Wet Hours	Hours>95%RH 43-86	66-77	Ri sk	Warni ng
05/01	64.8	0.0	0.03	24.0	4.0	0.0	1	Primary Infection
05/02	68.2	>mi n	0.05	11.8	4.8	0.0	1	Possi ble Infection
05/03	62.8	>mi n	0.11	17.0	5.5	0.0	1	Possi ble Infection
05/04	62.1	>mi n	0.01	15.0	9.0	0.0	1	Possi ble Infection
05/05	54.2	>mi n	0.24	14.5	0.0	0.0	0	
05/06	69.4	>mi n	0.38	12.5	6.3	0.0	1	Possi ble Infection
05/07	69.4	>mi n	0.55	18.0	15.5	0.0	1	Possi ble Infection
05/08	73.2	>mi n		11.3	7.8	0.0	1	Possi ble Infection
05/09	68.8	>mi n	0.14	11.8	6.3	0.0	1	Possi ble Infection

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05/10	67.5	>mi n		1.5	0.3	0.0	0	
05/11	65.8	>mi n		1.3	0.0	0.0	0	
05/12	67.5	>mi n	0.12	8.5	1.3	0.0	1	Possi bl e Infecti on
05/13	69.3	>mi n		5.3	0.5	0.0	1	Possi bl e Infecti on
05/14	60.8	>mi n	0.30	16.0	0.0	0.0	0	
05/15	80.2	>mi n	0.01	14.0	7.5	0.0	1	Possi bl e Infecti on
05/16	76.9	>mi n	0.05	18.8	14.0	0.0	1	Possi bl e Infecti on
05/17	61.5	>mi n	0.39	10.0	8.8	0.0	1	Possi bl e Infecti on
05/18	56.3	>mi n		3.5	0.0	0.0	0	
05/19	68.3	>mi n		1.8	0.3	0.0	0	
05/20	82.9	>mi n		6.0	0.0	0.0	0	
05/21	84.1	>mi n		1.5	0.0	0.0	0	
05/22	85.1	>mi n		0.8	0.0	0.0	0	
05/23	70.9	>mi n		5.8	0.8	0.0	1	Possi bl e Infecti on
05/24	80.2	>mi n	0.15	19.0	7.0	0.8	3	Hi gh Ri sk of Infecti on
05/25	80.0	>mi n		10.8	6.5	0.0	1	Possi bl e Infecti on
05/26	63.9	>mi n			0.0	0.0	0	
05/27	60.0	>mi n	0.11	13.0	1.0	0.0	1	Possi bl e Infecti on
05/28	64.1	>mi n		13.3	5.5	0.0	1	Possi bl e Infecti on
05/29	67.7	>mi n	0.33	17.5	13.8	0.0	1	Possi bl e Infecti on
05/30	78.6	>mi n		8.5	5.8	0.0	1	Possi bl e Infecti on
05/31	76.7	>mi n	152.00	8.0	4.3	0.0	1	Possi bl e Infecti on
06/01	67.0	>mi n	21889.00	1.0	0.0	0.0	0	
06/02	78.7	>mi n	22033.00	9.3	1.3	0.0	1	Possi bl e Infecti on
06/03	75.5	>mi n	21715.00	16.5	6.5	0.0	1	Possi bl e Infecti on
06/04	72.9	>mi n	22321.00	13.8	7.5	0.0	1	Possi bl e Infecti on
06/05	61.6	>mi n	8268.56	22.5	13.8	0.0	1	Possi bl e Infecti on
06/06	76.1	>mi n	0.01	12.8	9.8	0.0	1	Possi bl e Infecti on
06/07	80.9	>mi n		8.3	7.0	0.0	1	Possi bl e Infecti on
06/08	79.1	>mi n		5.0	0.0	0.0	0	
06/09	58.5	>mi n	0.58	17.3	5.5	0.0	1	Possi bl e Infecti on
06/10	65.3	>mi n	0.40	19.3	11.5	0.0	1	Possi bl e Infecti on
06/11	66.6	>mi n	0.02	13.5	3.5	0.0	1	Possi bl e Infecti on
06/12	76.6	>mi n	0.47	17.8	16.3	4.8	3	Hi gh Ri sk of Infecti on
06/13	79.0	>mi n	0.01	12.5	8.0	0.0	1	Possi bl e Infecti on
06/14	71.7	>mi n	0.33	14.3	10.5	0.0	1	Possi bl e Infecti on
06/15	73.3	>mi n	0.39	13.3	9.8	0.0	1	Possi bl e Infecti on
06/16	71.6	>mi n		10.8	7.3	0.0	1	Possi bl e Infecti on
06/17	72.1	>mi n		12.3	8.5	0.0	1	Possi bl e Infecti on
06/18	68.3	>mi n	0.75	21.0	11.0	0.0	1	Possi bl e Infecti on
06/19	64.4	>mi n	0.40	7.0	7.0	0.0	1	Possi bl e Infecti on

Gri swol d, CT Powdery Mi l dew - Grape From 2009-05-01 To 2009-06-19

Date	Temperature High	Temperature Mean	Hours 70-85	Hours >95	Wet Hours	Ascospore Infecti on	Coni di al Index
05/01	64.8	58.3	0.0	0.0	23.8	Heavy	
05/02	68.2	58.9	0.0	0.0	11.5	Heavy	
05/03	62.8	51.2	0.0	0.0	18.0		
05/04	62.1	53.5	0.0	0.0	14.8	Heavy	
05/05	54.2	51.3	0.0	0.0	13.5	Heavy	
05/06	69.4	53.6	0.0	0.0	12.5	Heavy	
05/07	69.4	58.5	0.0	0.0	18.0	Heavy	
05/08	73.2	61.7	3.0	0.0	11.0	Heavy	
05/09	68.8	61.4	0.0	0.0	11.8		
05/10	67.5	60.0	0.0	0.0	1.5		
05/11	65.8	53.0	0.0	0.0	1.3		
05/12	67.5	50.6	0.0	0.0	14.8		
05/13	69.3	53.5	0.0	0.0	12.8		
05/14	60.8	55.3	0.0	0.0	15.3	Heavy	
05/15	80.2	62.7	6.8	0.0	14.0	Heavy	
05/16	76.9	59.9	4.5	0.0	18.8	Heavy	

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05/17	61.5	56.5	0.0	0.0	10.0	Heavy	
05/18	56.3	48.5	0.0	0.0	6.5		
05/19	68.3	52.0	0.0	0.0	9.3		
05/20	82.9	62.0	8.8	0.0	6.3		
05/21	84.1	67.0	10.5	0.0	1.3		
05/22	85.1	68.9	11.0	0.0	0.8		60 Heavy
05/23	70.9	61.7	0.0	0.0	5.8		50 Medi um
05/24	80.2	64.1	6.3	0.0	19.0	Heavy	70 Heavy
05/25	80.0	66.7	9.3	0.0	10.5	Heavy	90 Heavy
05/26	63.9	54.2	0.0	0.0	0.0		80 Heavy
05/27	60.0	53.8	0.0	0.0	12.8		70 Heavy
05/28	64.1	55.2	0.0	0.0	13.3		60 Heavy
05/29	67.7	58.4	0.0	0.0	17.5	Heavy	50 Medi um
05/30	78.6	66.6	9.8	0.0	8.5	Heavy	70 Heavy
05/31	76.7	61.9	7.5	0.0	8.0		90 Heavy
06/01	67.0	54.2	0.0	0.0	1.5		80 Heavy
06/02	78.7	63.0	5.5	0.0	9.3		70 Heavy
06/03	75.5	61.3	4.5	0.0	16.3	Heavy	60 Heavy
06/04	72.9	59.5	2.5	0.0	13.8	Heavy	50 Medi um
06/05	61.6	55.3	0.0	0.0	22.5	Heavy	40 Medi um
06/06	76.1	60.9	4.8	0.0	12.3	Heavy	30 Li ght
06/07	80.9	68.7	10.5	0.0	8.3		50 Medi um
06/08	79.1	65.5	7.8	0.0	4.8		70 Heavy
06/09	58.5	55.8	0.0	0.0	17.3	Heavy	60 Heavy
06/10	65.3	59.5	0.0	0.0	18.3	Heavy	50 Medi um
06/11	66.6	60.9	0.0	0.0	12.3	Heavy	40 Medi um
06/12	76.6	66.6	6.8	0.0	17.5	Heavy	60 Heavy
06/13	79.0	65.6	6.0	0.0	12.5	Heavy	80 Heavy
06/14	71.7	61.7	1.3	0.0	14.3	Heavy	70 Heavy
06/15	73.3	59.5	0.5	0.0	13.0		60 Heavy
06/16	71.6	59.2	0.5	0.0	10.8		50 Medi um
06/17	72.1	57.9	2.0	0.0	12.3		40 Medi um
06/18	68.3	60.0	0.0	0.0	21.0	Heavy	30 Li ght
06/19	64.4	63.9	0.0	0.0	7.3	Heavy	20 Li ght

Leaf Wetness Sensor Parameters:

Base Temperature 0.0
 Upper Temperature 100.0
 Wetness Threshold 6.0

Gri swol d, CT Phomopsis Cane+Leaf Spot - Grape From 2009-05-01 To 2009-06-19

Date	Temp Mean	Wet Hours	Rai n-Fal l	Wet+ Rai n	Wet Temp	Di sease Intensi ty Catawba	Seyval
05/01	58.3	24.0	0.03	9.8	61.1	44 Moderate	67 Moderate
05/02	58.9	12.8	0.05	19.5	59.2	113 Hi gh	130 Hi gh
05/03	51.2	18.0	0.11	8.5	50.2	17 Li ght	28 Li ght
05/04	53.5	16.0	0.01	21.3	50.1	63 Moderate	71 Moderate
05/05	51.3	17.3	0.24	17.3	51.5	56 Moderate	68 Moderate
05/06	53.6	12.5	0.38	10.0	47.7	14 Li ght	22 Li ght
05/07	58.5	19.0	0.55	16.0	56.7	77 Moderate	94 Hi gh
05/08	61.7	13.0	0.00	15.5	56.3	72 Moderate	89 Moderate
05/09	61.4	12.0	0.14	7.3	57.2	25 Li ght	42 Moderate
05/10	60.0	1.5	0.00	0.0	0.0	0	0
05/11	53.0	1.5	0.00	0.0	0.0	0	0
05/12	50.6	12.5	0.12	1.5	52.9	2 Li ght	6 Li ght
05/13	53.5	5.8	0.00	0.0	0.0	0	0
05/14	55.3	16.3	0.30	9.3	56.8	35 Moderate	53 Moderate
05/15	62.7	15.0	0.01	16.5	56.0	77 Moderate	93 Hi gh
05/16	59.9	18.8	0.05	9.5	59.6	41 Moderate	62 Moderate
05/17	56.5	10.5	0.39	20.0	58.9	116 Hi gh	132 Hi gh
05/18	48.5	5.3	0.00	0.0	0.0	0	0

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05/19	52.0	2.3	0.00	0.0	0.0	0	0
05/20	62.0	7.3	0.00	0.0	0.0	0	0
05/21	67.0	1.8	0.00	0.0	0.0	0	0
05/22	68.9	1.0	0.00	0.0	0.0	0	0
05/23	61.7	5.8	0.00	0.0	0.0	0	0
05/24	64.1	19.0	0.15	10.0	64.1	46 Moderate	73 Moderate
05/25	66.7	11.5	0.00	14.8	63.8	81 Moderate	110 Hi gh
05/26	54.2	0.3	0.00	0.0	0.0	0	0
05/27	53.8	13.5	0.11	7.3	48.9	11 Li ght	20 Li ght
05/28	55.2	13.8	0.00	0.0	0.0	0	0
05/29	58.4	19.0	0.33	4.8	58.3	14 Li ght	29 Li ght
05/30	66.6	10.8	0.00	0.0	0.0	0	0
05/31	61.9	8.0	152.00	0.0	0.0	0	0
06/01	54.2	1.0	21889.00	1.8	45.6	1 Li ght	2 Li ght
06/02	63.0	9.8	22033.00	28.3	54.4	149 Hi gh	146 Hi gh
06/03	61.3	17.0	21715.00	28.5	59.7	197 Hi gh	196 Hi gh
06/04	59.5	14.3	22321.00	22.8	57.1	129 Hi gh	138 Hi gh
06/05	55.3	23.3	8268.56	37.8	54.3	224 Hi gh	196 Hi gh
06/06	60.9	16.3	0.01	34.3	54.7	201 Hi gh	183 Hi gh
06/07	68.7	9.0	0.00	0.0	0.0	0	0
06/08	65.5	5.3	0.00	0.0	0.0	0	0
06/09	55.8	18.8	0.58	15.5	55.4	68 Moderate	84 Moderate
06/10	59.5	24.0	0.40	39.5	57.9	294 Hi gh	255 Hi gh
06/11	60.9	21.8	0.02	51.8	58.0	436 Hi gh	340 Hi gh
06/12	66.6	24.0	0.47	25.3	66.2	172 Hi gh	196 Hi gh
06/13	65.6	20.0	0.01	41.8	65.6	355 Hi gh	329 Hi gh
06/14	61.7	17.0	0.33	13.8	59.5	69 Moderate	91 Hi gh
06/15	59.5	15.0	0.39	4.5	58.3	13 Li ght	27 Li ght
06/16	59.2	13.8	0.00	13.0	56.5	56 Moderate	75 Moderate
06/17	57.9	12.5	0.00	0.0	0.0	0	0
06/18	60.0	21.8	0.75	9.8	63.2	45 Moderate	70 Moderate
06/19	63.9	7.0	0.40	17.0	63.5	99 Hi gh	126 Hi gh

Leaf Wetness Sensor Parameters:

Base Temperature 41.0
 Upper Temperature 95.9
 Wetness Threshold 3.0

Wet+Rain is the number of rain-initiated leaf wetness hours

Wet Temp is the mean temperature during the rain-initiated wetness period

Disease Intensity projects the estimated lesions per leaf